Implement a program using basic programming constructs like Branching and Looping

1} while loop

```
class Whileloop

{

    public static void main(String arg[])

    {

int a=0;

    while(a<=100)

  {

    if(a%20==0)

    {

     System.out.println(a);

     } a++;

  }

  }

}
```

Output :

0

20

40

60

80

100

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hp\OneDrive\Desktop\Dhruv Gharat>java Whileloop.java
0
20
40
60
80
100

C:\Users\hp\OneDrive\Desktop\Dhruv Gharat>
```

2} for loop

class Forloop

{

 public static void main(String arg[])

  {

      int a;

for(a=0;a<=100;a++)

    {

```java
        if(a%20==0)
        {
            System.out.println(a);
        }
    }
}
```

Output :

0

20

40

60

80

100

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.19045.3570]
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C:\Users\hp\OneDrive\Desktop\Dhruv Gharat>java Whileloop.java
0
20
40
60
80
100

C:\Users\hp\OneDrive\Desktop\Dhruv Gharat>
```

3} dowhile loop

class Dowhileloop

{

   public static void main(String arg[])

   {

int a=0;

   do

 {

   if(a%20==0)

   {

    System.out.println(a);

    } a++;

```java
    } while(a<=100);

    }

}
```

Output :

0
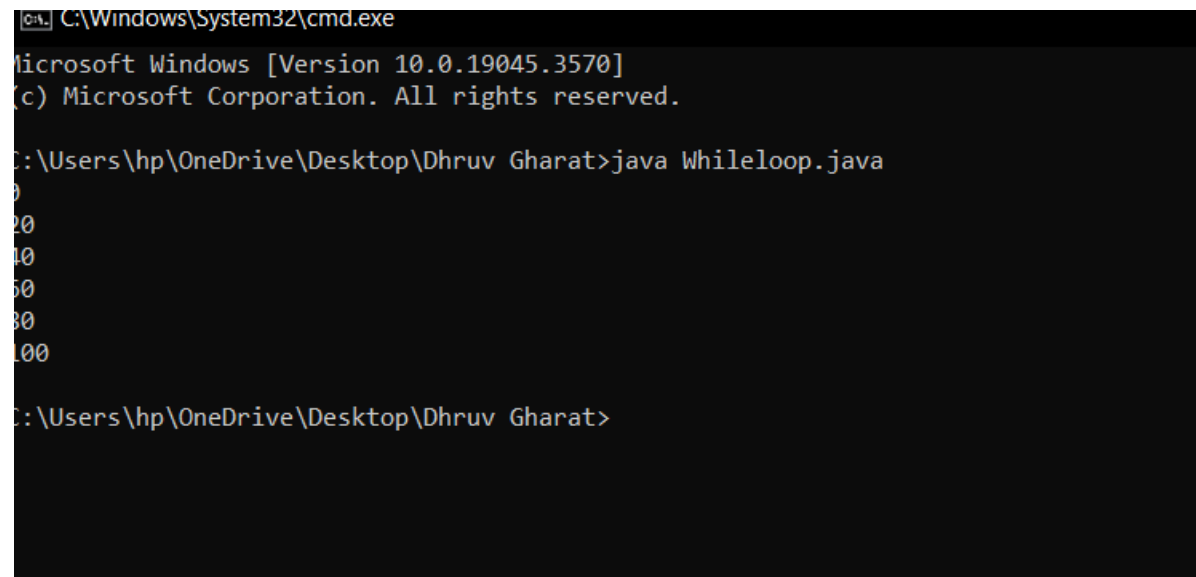
20

40

60

80

100

4}if else

```java
public class IfElseExample {

public static void main(String[] args) {
```

```java
        int number=13;
            if(number%2==0){
            System.out.println("even number");
        }else{
            System.out.println("odd number");
        }
    }
}
```
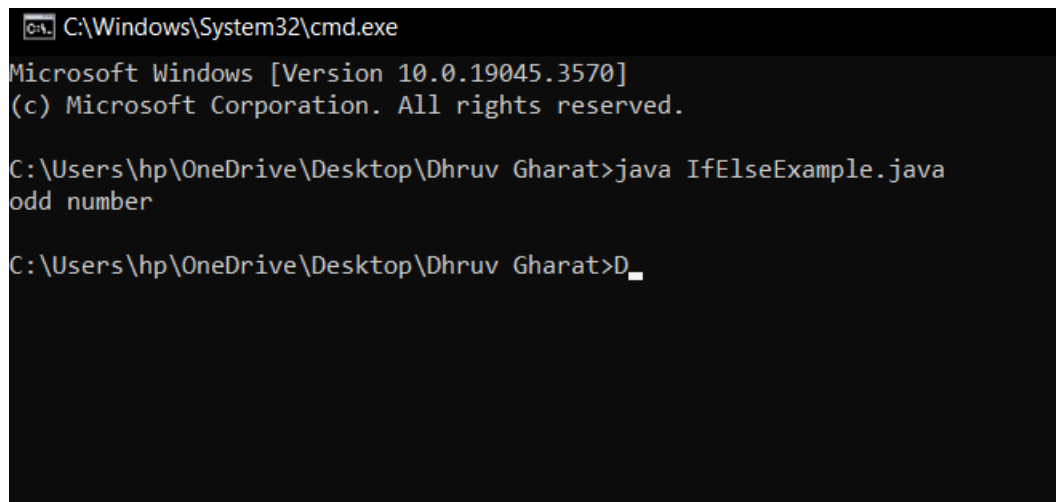
Output:

odd number

5} Ladder if else

```java
class SecJavaProgram
{
  public static void main(String args[])
```
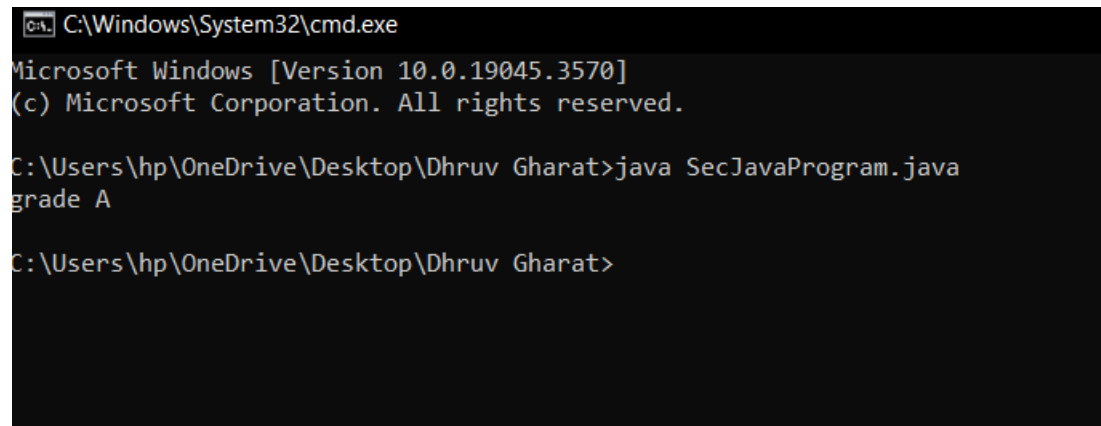
```java
{
  int a=90;

  if(a>=90)
  {
    System.out.println("grade A");
  }
  else if(a>=80)
  {
    System.out.println("grade B");
  }
  else if(a>=70)
  {
    System.out.println("grade c");
  }
  else if(a<70)
  {
    System.out.println("grade F");
  }
```

```
}

}
```

Output :

grade A

6} nested if else

```java
public class PositiveNegativeExample {

public static void main(String[] args) {

    int number=-13;

    if(number>0){

    System.out.println("POSITIVE");

    }else if(number<0){

    System.out.println("NEGATIVE");

    }else{

    System.out.println("ZERO");
```

```
    }
  }
}
```

Output :

NEGATIVE

7} switch

```
class SecJavaProgram
{
  public static void main(String args[])
  {
  int a=6;
  switch(a)
  {
case 1:
System.out.println("monday");
break;
case 2:
```

```java
        System.out.println("tuesday");

        break;

    case 3:

        System.out.println("wednesday");

        break;

    case 4:

        System.out.println("thursday");

        break;

    case 5:

        System.out.println("friday");

        break;

    case 6:

        System.out.println("saturday");

        break;

    case 7:

        System.out.println("sunday");

        break;

    default:

        System.out.println("invalid");
```

```
                break;

        }

    }

}
```

Output:

Saturday

C:\Users\hp\OneDrive\Desktop\Dhruv Gharat>java SecJavaProgram.java
saturday

C:\Users\hp\OneDrive\Desktop\Dhruv Gharat>